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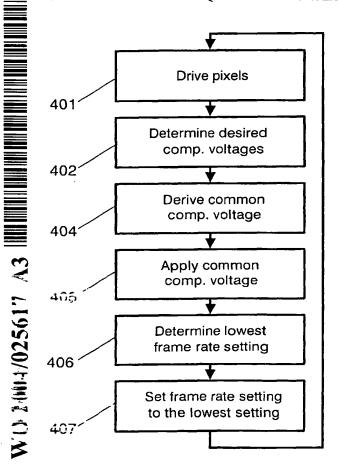
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(54) Title: TRANSFLECTIVE LIQUID CRYSTAL DISPLAY WITH REDUCED FLICKER



(57) Abstract: A method of reducing visible flicker in a transflective display device, having a plurality of pixels, each pixel comprising a transmissive sub-pixel and a reflective sub-pixel, is disclosed. The method comprises the steps of: driving the pixels with an alternating voltage; determining a first desired compensation voltage for the transmissive sub-pixels and a second desired compensation voltage for the reflective sub-pixels; deriving a common compensation voltage from said first desired compensation voltage and said second desired compensation voltage; and applying said common compensation voltage to both the transmissive and the reflective sub-pixels. Thus, the flicker resulting from a DC bias of the driving voltage is substantially reduced. In a preferred embodiment, the method further comprises the steps of: determining a lowest available frame frequency setting for which any remaining flicker is invisible; and setting a frame frequency at which the display is driven to said lowest available frame frequency. According to another embodiment, a backlight is manually controlled and the common compensation voltage is derived as a function of a mode of operation of the backlight. A transflective display device implementing the above methods is also disclosed.



ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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